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**From:** Petterson, Ingeborg [petterson.ingeborg@epa.gov]  
**Sent:** 3/30/2021 12:28:56 PM  
**To:** Nguyen, Thuy [Nguyen.Thuy@epa.gov]  
**Subject:** RE: Clarke review  
**Attachments:** PFAS\_clarke\_container\_review\_ACB\_final.pdf

Sorry for the delay! Here it is attached.

-Ingeborg

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**From:** Nguyen, Thuy <Nguyen.Thuy@epa.gov>  
**Sent:** Monday, March 29, 2021 4:22 PM  
**To:** Petterson, Ingeborg <petterson.ingeborg@epa.gov>  
**Subject:** RE: Clarke review

Ingeborg

On page 3, can you move "DATA Review Notes" onto the next page

Thanks

Thuy

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**From:** Petterson, Ingeborg <petterson.ingeborg@epa.gov>  
**Sent:** Monday, March 29, 2021 4:07 PM  
**To:** Nguyen, Thuy <Nguyen.Thuy@epa.gov>  
**Cc:** Qian, Yaorong <qian.yaorong@epa.gov>  
**Subject:** RE: Clarke review

I fixed one or two small typos still. Here is the signed PDF attached.

-Ingeborg

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**From:** Nguyen, Thuy <Nguyen.Thuy@epa.gov>  
**Sent:** Monday, March 29, 2021 3:07 PM  
**To:** Petterson, Ingeborg <petterson.ingeborg@epa.gov>  
**Cc:** Qian, Yaorong <qian.yaorong@epa.gov>  
**Subject:** RE: Clarke review

Ingeborg

I forward the review to RD, and they do not have any question and/or edit

Can you pdf, sign and forward it to me for my signature?

Thanks

Thuy

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**From:** Petterson, Ingeborg <petterson.ingeborg@epa.gov>  
**Sent:** Friday, March 26, 2021 4:00 PM  
**To:** Qian, Yaorong <qian.yaorong@epa.gov>; Nguyen, Thuy <Nguyen.Thuy@epa.gov>  
**Subject:** RE: Clarke review

Hi Thuy and Yaorong,

I have incorporated all comments, hopefully, in this version attached.

I did edit and move around some of the added comments/ sentences on pesticide product results. The study indicates that they aren't discussed here because the focus is the containers. The pesticide product results will be addressed in a separate study to be submitted to OPP in the future, so I recommend we save most of those discussions for the study that specifically reports on that data.

-Ingeborg

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**From:** Qian, Yaorong <[qian.yaorong@epa.gov](mailto:qian.yaorong@epa.gov)>

**Sent:** Friday, March 26, 2021 3:03 PM

**To:** Nguyen, Thuy <[Nguyen.Thuy@epa.gov](mailto:Nguyen.Thuy@epa.gov)>; Petterson, Ingeborg <[petterson.ingeborg@epa.gov](mailto:petterson.ingeborg@epa.gov)>

**Subject:** RE: Clarke review

I added my thoughts.

Thanks,

Yaorong

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**From:** Nguyen, Thuy <[Nguyen.Thuy@epa.gov](mailto:Nguyen.Thuy@epa.gov)>

**Sent:** Friday, March 26, 2021 1:31 PM

**To:** Petterson, Ingeborg <[petterson.ingeborg@epa.gov](mailto:petterson.ingeborg@epa.gov)>; Qian, Yaorong <[qian.yaorong@epa.gov](mailto:qian.yaorong@epa.gov)>

**Subject:** RE: Clarke review

See attached for my comments

Thanks

Thuy

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**From:** Petterson, Ingeborg <[petterson.ingeborg@epa.gov](mailto:petterson.ingeborg@epa.gov)>

**Sent:** Friday, March 26, 2021 11:48 AM

**To:** Nguyen, Thuy <[Nguyen.Thuy@epa.gov](mailto:Nguyen.Thuy@epa.gov)>; Qian, Yaorong <[qian.yaorong@epa.gov](mailto:qian.yaorong@epa.gov)>

**Subject:** RE: Clarke review

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**From:** Nguyen, Thuy <[Nguyen.Thuy@epa.gov](mailto:Nguyen.Thuy@epa.gov)>

**Sent:** Friday, March 26, 2021 11:31 AM

**To:** Petterson, Ingeborg <[petterson.ingeborg@epa.gov](mailto:petterson.ingeborg@epa.gov)>; Qian, Yaorong <[qian.yaorong@epa.gov](mailto:qian.yaorong@epa.gov)>

**Subject:** RE: Clarke review

That was one thing I could not figure out is how they determine their RL and why it's so much higher than the DL. I didn't see the calibration range either

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**From:** Petterson, Ingeborg <[petterson.ingeborg@epa.gov](mailto:petterson.ingeborg@epa.gov)>

**Sent:** Friday, March 26, 2021 11:27 AM

**To:** Qian, Yaorong <[qian.yaorong@epa.gov](mailto:qian.yaorong@epa.gov)>; Nguyen, Thuy <[Nguyen.Thuy@epa.gov](mailto:Nguyen.Thuy@epa.gov)>

**Subject:** RE: Clarke review

Method cites several different "typical" calibration ranges for different types of samples (water, soil, tissue). Not clear which range they went with, or if they used a custom range.

Trying to determine how the RL was set.

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**From:** Qian, Yaorong <[qian.yaorong@epa.gov](mailto:qian.yaorong@epa.gov)>  
**Sent:** Friday, March 26, 2021 11:25 AM  
**To:** Petterson, Ingeborg <[petterson.ingeborg@epa.gov](mailto:petterson.ingeborg@epa.gov)>; Nguyen, Thuy <[Nguyen.Thuy@epa.gov](mailto:Nguyen.Thuy@epa.gov)>  
**Subject:** RE: Clarke review

I quickly looked through the file early this week. I did not see the calibration ranged they used. I think they typically would not report that range. It would most likely be in the method they cited, like EPA method 533 or 537, if they say they used that method.

Yaorong

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**From:** Petterson, Ingeborg <[petterson.ingeborg@epa.gov](mailto:petterson.ingeborg@epa.gov)>  
**Sent:** Friday, March 26, 2021 11:20 AM  
**To:** Nguyen, Thuy <[Nguyen.Thuy@epa.gov](mailto:Nguyen.Thuy@epa.gov)>  
**Cc:** Qian, Yaorong <[qian.yaorong@epa.gov](mailto:qian.yaorong@epa.gov)>  
**Subject:** Clarke review

Hi Thuy and Yaorong,  
After I spoke to Yaorong earlier, I ended up editing quite a bit, but now the draft review is almost ready and I will send a draft to you shortly.

An important question: have either of you found results/ information on the calibration standard range used for the analysis? I can find several "example" ranges in the method, but so far do not see which range they used specifically.